

State of Illinois

Dept. & Div. ILL EPA MRP Inspector Sheryl Minton Inspected 7/8/87Mine Name FIDELITY # 11 Mine Company FREEMAN

IEPA

M &amp; M

Permit No. IL 0000302 Permit No. \_\_\_\_\_County PERRYGeneral Location Approx 5 miles SW of DuQuoinArrival Time 10:10 AM Weather Conditions HOT, cloudy, windy, wet

## RECLAMATION TYPE (Check Appropriate Type)

Mine Includes Prime Land Yes/ NoSteep Slope Rule Applies Yes/ NoCoal Preparation Yes/ NoNot Applicable       Reason for Visit: ROUTINE

Persons Contacted:

Bill SmithGLEN HAMILTON

## PARAMETER CHECKLIST

1. Availability of: A    permits B    Plans
2. Imminent Danger to Public Health and Safety
3. Significant Imminent Environmental Harm
4. Signs and Markers: A. mine entrance B. perimeter C. blasting D. topsoil E. perimeter observance 1. 100' zone 2. 300' zone F. permit area correlation G. not investigated H. not applicable
5. Disposal Spoil and Waste Material Outside Pit or Direct Cast Site: (A) gob disposal
  1. site capacity 2. covering 3. vegetation B. within permit area C. site approved
  - D. slope of site E. steep slope rules F. valley fill or head of hollow fills:
  1. permit area 2. location near ridge top 3. fill design 4. fill construction
  5. steep slope rules 6. under drains 7. lateral drains 8. controlled placement
  9. engineer inspection G. not investigated H. not applicable
6. Soil Handling: A. removal before other disturbance B. storage C. protection
  - D. thickness E. root medium F. other overburden G. toxic material handling
  - H. root medium satisfactory for top soil replacement (slope, thickness, texture)
  - I. topsoil replaced J. grading current K. rills and gullies L. erosion control systems M. timely revegetation and mulching (N) not investigated O. not applicable
7. Prime Land: A. prime land determination B. soil horizon removal prior to other disturbance C. thickness removed D. approved horizon storage E. protection of stockpiles F. horizon replacement and thickness G. protection of replaced horizons H. grade (1) not investigated J. not applicable
8. General Water Quality and Hydrology: (A) waterways 1. unaffected area drainage diverted (2) affected area drainage ditches and berms 3. system maintenance B. grading (C) vegetation D. toxic material E. horizontal boreholes (E) sediment ponds: 1. size 2. structure 3. spillway 4. clean out 5. over 20' high or over 20 acre feet storage (   yes/    no) 6. seepage (1) structural weakness 8. discharge structure 9. chemical treatment system 9. (a). permitted    yes/    no (G) discharge water quality H. buffer zone (100') observance I. zone markers (6) NPDES permits required    yes/    no K. water quality L. not investigated M. not applicable

☐ TEMPORARY REPORT  
☒ FINAL REPORT


Mine Name Fidelity #11

9. Stream Channel or Other Water Diversion: ☒ temporary or permanent B. size adequacy C. stability D. gradient E. grade stability F. suspended solids G. sediment control H. channel design I. erosion control structures J. fish and wildlife protection K. vegetation L. removal of temporary structures M. structure removal procedures N. not investigated O. not applicable
10. Road Hydrology: A. culverts ☒ B. ditches C. location choice D. grade E. stream closeness F. ditch relief drains G. outslope drains H. construction material toxic/ non-toxic I. maintenance J. railroad spur hydrology K. vegetation L. not investigated M. not applicable
- ☒ 11. Impoundment Structures: A. M.H.S.A. construction observance B. coal waste in structure C. freeboard D. stability E. seepage F. engineer inspection G. dam marker H. maintenance I. ditch and spillways J. changes in geometry of structure K. not investigated L. not applicable
12. Steep Slope Procedure: A. spoil on outslope B. debris C. highwall removal D. disturbance above highwall E. excess spoil F. instability of spoil and woody material G. not investigated ☒ H. not applicable
- ☒ 13. Preparation Facility (includes crushing and screening): A. water circuit 1. open system 2. closed system 3. no water circuit ☒ B. slurry impoundment ☒ C. berm stability a.) seepage b.) vegetative cover c.) freeboard 2. acid producing potential C. not investigated D. not applicable
14. Domestic Wastewater Treatment Facilities: A. type of system 1. activated sludge package plant 2. lagoon - sandfilters 3. septic tank w/sand filters 4. other B. sand filter maintenance 1. weeds 2. raking 3. sand replacement C. chlorination D. certified operator ☒ E. not investigated F. not applicable

LEGEND: ☐ = parameter inspected: ☒ = comment or question on the parameter

NOTE: Items circled were considered during this investigation. If nothing under a major item was investigated, circle either "not investigated" or "not applicable". Violation means violation or apparent violation.

     NO VIOLATIONS FOUND☒ SEE ATTACHMENT

Indicated Parameter			Comments or Action Taken	
Check Column				
No.	Vio- lation	Non-Vio- lation		
Gen Comm		<input checked="" type="checkbox"/>		
5A		<input checked="" type="checkbox"/>		
8A		<input checked="" type="checkbox"/>		
8F		<input checked="" type="checkbox"/>		
8J		<input checked="" type="checkbox"/>		
9A		<input checked="" type="checkbox"/>		

ATTACHMENT

Freeman United Coal Co.  
Fidelity #11  
July 8, 1987

General Comments: During the investigation, I spoke with Glen Hamilton and Bill Smith, Reclamation Supervisor and Permit Manager, in regard to the seeding and mulching of the small affected areas, outside of the southernmost haul road, where surface runoff water is not tributary to a sedimentation pond. Mr. Hamilton said that the areas have been graded and ready to be seeded. Unfortunately, a lot of soil material has already left the permit boundaries through erosion and has settled out in the receiving drainageways. There isn't enough sediment to warrant removal, so I asked Mr. Hamilton to stabilize it the best he can by seeding and establishing a vegetative growth. Additionally, I requested that the exposed drainageways have straw bales stacked in them to slow down any surface runoff water. By incorporating the preventative measures mentioned above, the amount of soil loss should be minimized.

I observed the eastern portion of the site and it appears that most of it can be released from the NPDES permit. The exception being the final cut pit which has not been final graded in accordance with the approved abandonment plan. All of the surface runoff water from the eastern section of the site flows toward the west into drainageways that report to final cut impoundments that are tributary to outfall 002.

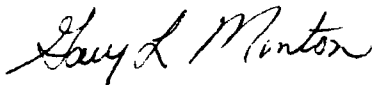
5A: Refuse disposal is occurring in the same valley for at least three and a half years now. The refuse appears to be adequately compacted and all surface runoff from the refuse pile reports to a final cut located just to the southwest.

8A: I observed the drainageways and it appears that all surface runoff water, from the majority of affected areas, is (exceptions noted under General Comments) tributary to a sedimentation pond prior to leaving the facility.

8F: This site has two NPDES authorized discharges which include 002 located along the northwest section of the site and 006 located along the southern portion of the site. Both outfalls were discharging during this investigation. Outfall 002 was discharging at greater than 500 gallons per minute and 006 was discharging at greater than 200 gallons per minute. All of the discharging waters appeared clear and no effluent samples were obtained.

8J: This site is permitted under NPDES permit IL0000302. Note: all DMR's have been submitted in accordance with permit conditions.

9A: The temporary water conveyances located on the southern section of the site, transport all surface runoff water and pit pumpage into pond #006.



Gary L. Minton  
Environmental Protection Specialist

GLM:mk/0355M/07-14-87

cc: MPCP/FOS/Marion  
IDMM